## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/35933

		161/6			
A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : A23B 4/14; A23B 4/20					
US CL : 426/335, 615, 641, 643					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIEL	DS SEARCHED				
Minimum do	cumentation searched (classification system followed b	y classification symbols)			
	26/335, 615, 641, 643	•			
Documentation	on searched other than minimum documentation to the	extent that such documents are	e included in the fields searched		
•					
		. 6 1 1	المود ومسمه بالمساد		
	ta base consulted during the international search (name	e of data base and, where prac	cucadie, search terms used)		
Please See Co	ontinuation Sheet		•		
C. DOCI	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	propriate, of the relevant pass	sages Relevant to claim No.		
Y, P	US 2003/0047087 A1 (PHEBUS et al.) 13 March 20				
-,-	0029, 0030-0037.				
Y	US 4,996,070 A (NAFISI-MOVAGHAR) 26 Februa	ry 1991, abstract and col. 10,	lines 24- 5, 6		
- 1	39, col. 12, lines 20-30.	•			
Y	US 5,421,883 A (BOWDEN) 06 June 1995, abstract	and col. 7, lines 55-64, col. 8	<b>3, 1-11</b> . <b>7-11</b>		
_		•	·		
Y, P	US 2003/0198716 A1 (HANKINSON et al.) 23 October 2003, abstract and page 5,		, 16-17		
ĺ	paragraph 0044, 0045, 0046.				
Y, P	US 2003/0148727 A1 (HILGREN et al.) 07 August	03 <mark>2003, paragraphs 0014, 0</mark> 04	48, 0064, 16, 19, 24		
	0132, 0134.		·		
Y, E	US 2004/0009271 A1 (DAVIDSON et al.) 15 Januar	y 2004, abstract and paragrap	hs 0016, 24-31		
. ]	0054, 0065.	•	. 1		
Y	US 6,126,810 A (FRICKER et al.) 03 October 2000	, abstract and col. 4, lines 33-	55. ( 30, 31		
.					
Y	US 2002/0064585 A1 (CHRISTIANSON et al.) 30 May 2002, abstract and page 14, claim 25, 26				
	20 and 21.				
j		•	j		
)		•			
Further	documents are listed in the continuation of Box C.	See patent family a	nnex.		
	pecial categories of cited documents:	"T" later document publishe	ed after the international filing date or priority		
•	•	date and not in conflict	with the application but cited to understand the		
	defining the general state of the art which is not considered to be	principle or theory und	erlying the invention		
-	lar relevance		relevance; the claimed invention cannot be		
"E" earlier app	plication or patent published on or after the international filing date		nnot be considered to involve an inventive step		
"L" document	which may throw doubts on priority claim(s) or which is cited to	when the document is t	akeji alone		
establish t	he publication date of another citation or other special reason (as		relevance; the claimed invention cannot be		
specified)	•		in inventive step when the document is more other such documents, such combination		
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a pers			
		"&" document member of the	he come natest family		
	published prior to the international filing date but later than the ate claimed	"&" document member of the	de same patern randry		
	tual completion of the international search	Date of mailing of the intern	ational search report		
Date of the ac	char completion of the international scarcin	4 P	MANY 2004		
30 April 2004 (30.04.2004) 17 MAY 2004			MH COO4		
Name and mailing address of the ISA/US  Mail Stop PCT, Atm: ISA/US  Commissioner for Potents  Helen F. Pratt			1/1/11		
Mail Stop PCT, Attn: ISA/US			J'////		
Com	missioner for Patents				
P.O. Box 1450 Alexandria, Virginia 22313-1450  Telephone No. 571-272-1201					
Facsimile No. (703) 305-3230					
r amining 140	. (100) 000-0000				

Form PCT/ISA/210 (second sheet) (July 1998)

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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
Claim Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:				
2. Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet				
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.				
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark on Protest				
No protest accompanied the payment of additional search fees.				

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BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACT This application contains the following inventions or groups of inventions which are	CKING			
concept under PCT Rule 13.1. In order for all inventions to be examined, the appr	ropriate additional examination fees must be paid.			
Group I, claim(s) 1-7, drawn to a method of applying a composition to a workpiece.				
Group II, claim(s) 8-15, drawn to an apparatus that contains various apparatus for applying a composition to a product.				
Group III, claim(s) 16-20, drawn to a method of conveying a plurality of workpieces.				
Group IV, claim(s) 21-23, drawn to an apparatus which requires a rigid member with a plurality of openings.				
Group V, claim(s) 24-31, drawn to a method which requires particular antimicrobial compounds.				
The inventions listed as Groups I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I, claims 1-7 are to applying a composition to a workpiece, diverting a portion of the composition and diluting the diverted composition, determining a concentration of the first component and adding an additional amount of the first component.				
Group II, claims 8-15 are to a combination that contains various apparatus for applying a composition to a product. The method of Group II does not require the same technical features because they are to particular apparatus such as a sprayers and conduits and spectrophotometers which are not required for the first method.				
Group III, claims 16-20 is to a method of conveying which lacks the same or corresponding special technical feature of the method of group I which requires no conveying, or the particular apparatus of Group II which requires an apparatus.				
Group IV, claims 21-23 is to an apparatus further requiring a rigid member with a plurality of openings which is not the same technical feature required for the previous groups.				
Group V, claims 24-31 further requires particular antimicrobial compounds not required by the previous groups and therefore the previous groupings lack the same corresponding technical feature.				

Continuation of B. FIELDS SEARCHED Item 3:

INTERNA	TIONAL SEARCH REPORT	
West and East search terms:	antimicrobial, antibacterial, apply, remove, recycle,	conveyor, filter, lenses, sensors, sprayer
t.	·	

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